

[illegible]

[illegible]

```

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```

```
0001 0 MODULE TBKDPC ( IDENT = 'V04-000' ) =
0002 1 BEGIN
0003 1
0004 1
0005 1 *****
0006 1 *
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0024 1 *
0025 1 *
0026 1 *****
0027 1
0028 1
0029 1 ++
0030 1 FACILITY:
0031 1   TRACEBACK
0032 1
0033 1 ABSTRACT:
0034 1   analyzes PC correlation tables for DEBUG and for symbolic
0035 1   traceback.
0036 1
0037 1 ENVIRONMENT: VAX/VMS, user mode, interrupts disabled.
0038 1
0039 1 AUTHOR:      Carol Peters, CREATION DATE:   16 September 1977
0040 1
0041 1 Version      13
0042 1
0043 1 MODIFIED BY:
0044 1   Dale Roedger, 15 June 1978: Version 13
0045 1   Sid Maxwell   09-Dec-81
0046 1
0047 1   15-Aug-83      PS   Did general clean up to use updated files
0048 1                   from DEBUG.
0049 1   Jan-84        RT   Changed TBK$PC TO LINE so that it only
0050 1                   reports a match if the pc/line tables
0051 1                   indicate that the line is "open" (i.e.,
0052 1                   "TERM" records now close the line and
0053 1                   prevent a match.) This fixes a problem
0054 1                   we were seeing with RPG programs (They
0055 1                   have code not associated with lines).
0056 1 --
```

```
58 0057 1 | TABLE OF CONTENTS:
59 0058 1 |
60 0059 1 |
61 0060 1 | FORWARD ROUTINE
62 0061 1 |     TBK$PC TO LINE,
63 0062 1 |     PROC PC CMD,
64 0063 1 |     GET_NEXT_DPC;
65 0064 1 |
66 0065 1 |
67 0066 1 | | REQUIRE FILES:
68 0067 1 | |
69 0068 1 | REQUIRE 'SRC$:TBKPROLOG.REQ';
70 0340 1 |
71 0341 1 |
72 0342 1 | | MACROS:
73 0343 1 | |
74 0344 1 | MACRO
75 0345 1 |     first_dpc_datum = 2, 0, 32, 0%,
76 0346 1 |     current_byte    = 0, 0, 8, 1%,
77 0347 1 |     next_uns_byte   = 1, 0, 8, 0%,
78 0348 1 |     next_uns_word   = 1, 0, 16, 0%,
79 0349 1 |     next_uns_long   = 1, 0, 32, 0%,
80 0350 1 |     add_one_byte    = 1, 0, 8, 0%,
81 0351 1 |     add_two_bytes   = 2, 0, 8, 0%,
82 0352 1 |     add_three_bytes = 3, 0, 8, 0%,
83 0353 1 |     add_five_bytes  = 5, 0, 8, 0%;
84 0354 1 |
85 0355 1 |
86 0356 1 | | EQUATED SYMBOLS:
87 0357 1 | |
88 0358 1 |
89 0359 1 | | The body of a PC/LINE Table Record is interpreted as a sequence of commands
90 0360 1 | | each of which supplies some information about line/statement numbers in the
91 0361 1 | | context of the preceding commands. The value is taken from DSTRECRDS.REQ.
92 0362 1 |
93 0363 1 |
94 0364 1 | LITERAL
95 0365 1 |     line_open      = 1;
96 0366 1 |     line_closed    = 2;
97 0367 1 |
98 0368 1 |
99 0369 1 | | OWN STORAGE:
100 0370 1 | |
101 0371 1 | OWN
102 0372 1 |     dst_entry      : REF dst$record,
103 0373 1 |     dpc_entry      : REF BLOCK [, BYTE],
104 0374 1 |     start_pc
105 0375 1 |     current_line,
106 0376 1 |     current_stmt,
107 0377 1 |     current_incr,
108 0378 1 |     current_pc,
109 0379 1 |     current_stmt_mode,
110 0380 1 |     prev_line,
111 0381 1 |     prev_stmt,
112 0382 1 |     prev_incr,
113 0383 1 |     prev_pc,
114 0384 1 |     prev_stmt_mode,
```

```
| matches a PC to a line number
| processes a string of PC correlation commands
| gets the next PC correlation record
```

```
| passes count and type
| current top of record
| byte argument to command
| word argument to command
| longword argument to command
| increment for top of record
| ditto
| ditto
| ditto
```

```
: 115      0385 1      current_mark,  
: 116      0386 1      prev_mark;  
: 117      0387 1  
: 118      0388 1  
: 119      0389 1      !  
: 120      0390 1      ! EXTERNAL REFERENCES:  
: 121      0391 1      !  
: 122      0392 1      ! EXTERNAL  
: 123      0393 1      !     tbk$module_dst : REF dst$record;  
: 124      0394 1      !  
: 125      0395 1      ! EXTERNAL ROUTINE  
: 126      0396 1      !     TBK$fake_MSG,  
: 127      0397 1      !     TBK$FAO_OUT : NOVALUE,  
: 128      0398 1      !     tbk$get_dst_rec,  
: 129      0399 1      !     tbk$get_nxt_dst,  
:           !     tbk$POSITON_DST;  
:           !  
:           ! gets a DST record from a DST pointer.  
:           ! gets next DST record in sequence  
:           ! Set up the DST 'next' sequence.
```

```
131 0400 1 GLOBAL ROUTINE tbk$pc_to_line (match_pc_ptr, routine_address, excep_type,  
132 0401 1 line_no_ptr, stmt_no_ptr) =  
133 0402 1 ++  
134 0403 1 FUNCTIONAL DESCRIPTION:  
135 0404 1 This routine matches an absolute PC address to a line number  
136 0405 1 in a FORTRAN routine. MATCH_PC is the given PC,  
137 0406 1 and the location pointed to by LINE_NO_PTR  
138 0407 1 is written as a result of delta-PC table analysis.  
139 0408 1  
140 0409 1 Each PC correlation record that exists for a single routine  
141 0410 1 is sequentially analyzed until the desired PC is seen.  
142 0411 1  
143 0412 1 If a match cannot be made because and end of routine record or  
144 0413 1 an invalid record is recognized, then this routine returns  
145 0414 1 FALSE.  
146 0415 1  
147 0416 1 FORMAL PARAMETERS:  
148 0417 1  
149 0418 1 match_pc_ptr - a pointer to the PC to be matched.  
150 0419 1 routine_address - DST of record for enclosing routine.  
151 0420 1 excep_type - the type of exception, where  
152 0421 1 zero, means irrelevant;  
153 0422 1 one, means trap type exception,  
154 0423 1 two, means fault or abort type exception.  
155 0424 1 line_no_ptr - a copy-back pointer for the line number.  
156 0425 1 stmt_no_ptr - a copy-back pointer for the statement number.  
157 0426 1  
158 0427 1 IMPLICIT INPUTS:  
159 0428 1  
160 0429 1 The DST is already positioned to the record AFTER  
161 0430 1 the ROUTINE record we want to look at line numbers for.  
162 0431 1  
163 0432 1 IMPLICIT OUTPUTS:  
164 0433 1  
165 0434 1 the routine get_nxt_dst is set up to next return the record after  
166 0435 1 the end of routine record or the record after the PC correlation  
167 0436 1 record that matched the given parameters.  
168 0437 1  
169 0438 1 ROUTINE VALUE:  
170 0439 1 COMPLETION CODES:  
171 0440 1  
172 0441 1 true, if success; false, if any error or if match cannot  
173 0442 1 be made.  
174 0443 1  
175 0444 1 SIDE EFFECTS:  
176 0445 1  
177 0446 1 The DST is positioned for a GET_NXT_DST sequence.  
178 0447 1  
179 0448 1 --  
180 0449 1  
181 0450 2 BEGIN  
182 0451 2  
183 0452 2 LOCAL match_pc,  
184 0453 2 low_routine,  
185 0454 2 real_value;  
186 0455 2  
187 0456 2
```

```
188      0457      2      | treat traps as faults by debumping PC
189      0458
190      0459      2
191      0460      2      IF .excep_type EQL trap_exc
192      0461      2      THEN match_pc = .match_pc_ptr - 1
193      0462      2      ELSE match_pc = .match_pc_ptr;
194      0463      2
195      0464      2      IF tbk$positon_dst(.tbk$module_dst) EQL 0
196      0465      2      THEN
197      0466      2          RETURN FALSE;
198      0467      2      dst_entry = .tbk$module_dst;
199      0468      2      low_routine = -1;
200      0469      2      REPEAT
201      0470      2          BEGIN
202      0471      2          dst_entry = tbk$get_nxt_dst(dst_entry);
203      0472      2          IF .dst_entry EQL 0
204      0473      2          THEN
205      0474      2              RETURN FALSE;
206      0475      2          IF .dst_entry[dst$b_type] EQL dst$k_modend
207      0476      2          THEN
208      0477      2              EXITLOOP;
209      0478      2          IF .dst_entry[dst$b_type] EQL dst$k_rtnbeg
210      0479      2          THEN
211      0480      2              BEGIN
212      0481      2              IF .dst_entry[dst$l_value] LSSA .low_routine
213      0482      2              THEN
214      0483      2                  low_routine = .dst_entry[dst$l_value];
215      0484      2              END;
216      0485      2          END;
217      0486      2      END;
218      0487      2
219      0488      2      IF tbk$positon_dst(.tbk$module_dst) EQL 0
220      0489      2      THEN
221      0490      2          RETURN FALSE;
222      0491      2      IF get_next_dpc(dst_entry) EQL 0
223      0492      2      THEN
224      0493      2          RETURN FALSE;
225      0494      2      dpc_entry = dst_entry[dst$b_vflags];
226      0495      2
227      0496      2      !++
228      0497      2      | Initialize state variables.
229      0498      2      |--
230      0499      2      current_line = 0;
231      0500      2      current_stmt = 1;
232      0501      2      current_incr = 1;
233      0502      2      current_stmt_mode = FALSE;
234      0503      2      current_pc = start_pc = .low_routine;
235      0504      2      current_mark = line_closed;
236      0505      2
237      0506      2
238      0507      2
239      0508      2      !++
240      0509      2      | Call a routine that processes all PC correlation commands
241      0510      2      | until a delta-PC command is seen. Then process that
242      0511      2      | delta-PC command and return to this routine. If the processing
243      0512      2      | is generally successful, return true, otherwise return false.
244      0513      2      |--
```

```
REPEAT
BEGIN
    prev_line = .current_line;
    prev_stmt = .current_stmt;
    prev_incr = .current_incr;
    prev_stmt_mode = .current_stmt_mode;
    prev_pc = .current_pc;
    prev_mark = .current_mark;

    IF NOT proc_pc_cmd ( )
    THEN
        RETURN FALSE;

    ! Report a match to a line if:
    ! - The PC is within the range given by the previous
    !   PC and the current PC, and
    ! - The line is marked as being OPEN.
    IF ((.prev_pc LEQA .match_pc) AND
        (.match_pc LSSA .current_pc) AND
        (.prev_mark EQL line_open))
    THEN BEGIN .stmt_no_ptr = (IF .prev_stmt EQL 1
                                THEN 0
                                ELSE .prev_stmt);
                .line_no_ptr = .prev_line;
                RETURN TRUE
            END;

    !++
    ! Found nothing this round; continue trying.
    !--

END;

END;
```

```
.TITLE TBKDPC
.IDENT \V04-000\
.PSECT TBK$OWN,NOEXE, PIC,2
```

```
00000 DST_ENTRY:
      .BLKB 4
00004 DPC_ENTRY:
      .BLKB 4
00008 START_PC:
      .BLKB 4
0000C CURRENT_LINE:
      .BLKB 4
00010 CURRENT_STMT:
      .BLKB 4
00014 CURRENT_INCR:
      .BLKB 4
00018 CURRENT_PC:
```

G 3
16-Sep-1984 02:13:52
14-Sep-1984 13:20:17VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[TRACE.SRC]TBKDPC.B32;1 Page 7
(3)

0001C CURRENT_STMT_MODE: .BLKB 4
00020 PREV_LINE: .BLKB 4
00024 PREV_STMT: .BLKB 4
00028 PREV_INCR: .BLKB 4
0002C PREV_PC: .BLKB 4
00030 PREV_STMT_MODE: .BLKB 4
00034 CURRENT_MARK: .BLKB 4
00038 PREV_MARK: .BLKB 4

.EXTRN TBK\$MODULE_DST, TBK\$FAKE_MSG
.EXTRN TBK\$FAO_OUT, TBK\$GET_DST_REC
.EXTRN TBK\$GET_NXT_DST
.EXTRN TBK\$POSITON_DST

.PSECT TBK\$CODE, NOWRT, SHR, PIC, 0

			007C 00000	.ENTRY	TBK\$PC TO LINE, Save R2,R3,R4,R5,R6	: 0400
56	00000000G	00	9E 00002	MOVAB	TBK\$POSITON_DST, R6	:
55	00000000G	00	9E 00009	MOVAB	TBK\$MODULE_DST, R5	:
54	0000	CF	9E 00010	MOVAB	DST_ENTRY, R4	:
01	0C	AC	D1 00015	CMPL	EXCEP_TYPE, #1	: 0459
		07	12 00019	BNEQ	1\$:
53	04	AC	01 C3 0001B	SUBL3	#1, MATCH_PC_PTR, MATCH_PC	: 0460
		04	11 00020	BRB	2\$:
53	04	AC	D0 00022	MOVL	MATCH_PC_PTR, MATCH_PC	: 0461
		65	DD 00026	PUSHL	TBK\$MODULE_DST	: 0463
66		01	FB 00028	CALLS	#1, TBK\$POSITON_DST	:
		50	D5 0002B	TSTL	R0	:
		7D	13 0002D	BEQL	6\$:
64		65	D0 0002F	MOVL	TBK\$MODULE_DST, DST_ENTRY	: 0466
52		01	CE 00032	MNEGL	#1, LOW_ROUTINE	: 0467
		54	DD 00035	PUSHL	R4	: 0470
00000000G	00	01	FB 00037	CALLS	#1, TBK\$GET_NXT_DST	:
	64	50	D0 0003E	MOVL	R0, DST_ENTRY	:
		69	13 00041	BEQL	6\$: 0471
BD	8F	01	A0 91 00043	CMPB	1(R0), #189	: 0474
		13	13 00048	BEQL	4\$:
BE	8F	01	A0 91 0004A	CMPB	1(R0), #190	: 0477
		E4	12 0004F	BNEQ	3\$:
52	03	A0	D1 00051	CMPL	3(R0), LOW_ROUTINE	: 0480
		DE	1E 00055	BGEQU	3\$:
52	03	A0	D0 00057	MOVL	3(R0), LOW_ROUTINE	: 0482
		D8	11 0005B	BRB	3\$: 0467
		65	DD 0005D	PUSHL	TBK\$MODULE_DST	: 0487
66		01	FB 0005F	CALLS	#1, TBK\$POSITON_DST	:
		50	D5 00062	TSTL	R0	:
		46	13 00064	BEQL	6\$:
		54	DD 00066	PUSHL	R4	: 0490
0000V	CF	01	FB 00068	CALLS	#1, GET_NEXT_DPC	:

04	A4	64	50	D5	0006D	TSTL	R0	:	
			3B	13	0006F	BEQL	6\$:	
			02	C1	00071	ADDL3	#2, DST_ENTRY, DPC_ENTRY	:	0493
			A4	D4	00076	CLRL	CURRENT_LINE	:	0499
10	A4		01	D0	00079	MOVL	#1, CURRENT_STMT	:	0500
14	A4		01	D0	0007D	MOVL	#1, CURRENT_INCR	:	0501
			A4	D4	00081	CLRL	CURRENT_STMT_MODE	:	0502
08	A4		52	D0	00084	MOVL	LOW_ROUTINE, START_PC	:	0503
18	A4		52	D0	00088	MOVL	LOW_ROUTINE, CURRENT_PC	:	
34	A4		02	D0	0008C	MOVL	#2, CURRENT_MARK	:	0504
20	A4		A4	7D	00090	MOVQ	CURRENT_LINE, PREV_LINE	:	0517
30	A4		A4	D0	00095	MOVL	CURRENT_STMT_MODE, PREV_STMT_MODE	:	0520
28	A4		A4	7D	0009A	MOVQ	CURRENT_INCR, PREV_INCR	:	0519
38	A4		A4	D0	0009F	MOVL	CURRENT_MARK, PREV_MARK	:	0522
0000V	CF		00	FB	000A4	CALLS	#0, PROC_PC_CMD	:	0525
	03		50	E8	000A9	BLBS	R0, 7\$:	
			50	D4	000AC	CLRL	R0	:	0527
			04	000AE	RET			:	
	53		A4	D1	000AF	CMPL	PREV_PC, MATCH_PC	:	0535
			DB	1A	000B3	BGTRU	5\$:	
18	A4		53	D1	000B5	CMPL	MATCH_PC, CURRENT_PC	:	0536
			D5	1E	000B9	BGEQU	5\$:	
	01		A4	D1	000BB	CMPL	PREV_MARK, #1	:	0537
			CF	12	000BF	BNEQ	5\$:	
	01		A4	D1	000C1	CMPL	PREV_STMT, #1	:	0538
			04	12	000C5	BNEQ	8\$:	
			50	D4	000C7	CLRL	R0	:	
			04	11	000C9	BRB	9\$:	
	50		A4	D0	000CB	MOVL	PREV_STMT, R0	:	0540
14	BC		50	D0	000CF	MOVL	R0, @STMT_NO_PTR	:	0538
10	BC		A4	D0	000D3	MOVL	PREV_LINE, @LINE_NO_PTR	:	0541
	50		01	D0	000D8	MOVL	#1, R0	:	0542
			04	000DB	RET			:	0550

; Routine Size: 220 bytes, Routine Base: TBK\$CODE + 0000

```
283 0551 1 ROUTINE PROC_PC_CMD =
284 0552 1 ++
285 0553 1 Functional description:
286 0554 1 This routine processes PC correlation commands until a
287 0555 1 delta-PC command is seen. The delta-PC command is also processed.
288 0556 1 Then this routine returns with all the contents of the
289 0557 1 parameter pointers updated appropriately.
290 0558 1
291 0559 1 This routine moves from PC record to PC record as necessary. If
292 0560 1 no more records are seen, this routine returns false. If
293 0561 1 an error is seen in a PC correlation record, then this
294 0562 1 routine sets the contents of line_ptr to zero and
295 0563 1 returns false.
296 0564 1
297 0565 1 Inputs:
298 0566 1
299 0567 1 Implicit inputs:
300 0568 1 None
301 0569 1
302 0570 1 Implicit outputs:
303 0571 1 the contents of the line pointer, the increment pointer, the
304 0572 1 statement pointer, the next_pc pointer, dpc_entry, and possible
305 0573 1 dst_entry are updated to new values.
306 0574 1
307 0575 1 Routine value:
308 0576 1 TRUE if all goes well, otherwise FALSE.
309 0577 1
310 0578 1 Side effects:
311 0579 1 More of the correlation records for this routine are read.
312 0580 1 --
313 0581 1
314 0582 2 BEGIN
315 0583 2
316 0584 2 REPEAT
317 0585 3 BEGIN
318 0586 3
319 0587 3 ! See whether the current record is exhausted. If
320 0588 3 so, get a new record. If none are available,
321 0589 3 return FALSE. Otherwise, set dpc_entry to point to
322 0590 3 the address of the third byte of the correlation record.
323 0591 3
324 0592 3 IF dpc_entry[current_byte] GTR (.dst_entry[dst$b_length] +
325 0593 4 dst_entry[dst$b_length])
326 0594 4
327 0595 4 THEN
328 0596 4 BEGIN
329 0597 4 IF NOT get_next_dpc(dst_entry)
330 0598 4 THEN
331 0599 4 RETURN FALSE
332 0600 4
333 0601 4 ELSE
334 0602 4 dpc_entry = dst_entry [dst$b_vflags];
335 0603 4
336 0604 4 END;
337 0605 3
338 0606 3 ! Now process each command, either PC correlation or
339 0607 3 ! delta-PC one at a time. Once a delta-PC command is
```

```
! processed, control returns from this routine to its
! caller.
CASE .dpc_entry [current_byte] FROM 1 TO dst$k_pccor_high OF
SET

! Read the next two bytes as an unsigned word
! representing a delta-PC value. Update the next_pc
! and update the dpc_entry address.
[dst$k_delta_pc_w]:
BEGIN
IF .current_stmt_mode
THEN
current_stmt = .current_stmt + 1
ELSE
current_line = .current_line +
.current_incr;

current_mark = line_open;
current_pc = .current_pc +
.dpc_entry [next_uns_word];
dpc_entry = dpc_entry [add_three_bytes];
RETURN TRUE;
END;

! Read the next four bytes as an unsigned longword
! representing a delta-PC value. Update the next_pc
! and update the dpc_entry address.
[dst$k_delta_pc_l]:
BEGIN
IF .current_stmt_mode
THEN
current_stmt = .current_stmt + 1
ELSE
current_line = .current_line +
.current_incr;

current_mark = line_open;
current_pc = .current_pc +
.dpc_entry [next_uns_long];
dpc_entry = dpc_entry [add_five_bytes];
RETURN TRUE;
END;

! Increase the current line number by the value
! contained in the next unsigned byte.
[dst$k_incr_linum]:
BEGIN
current_line = .current_line + .dpc_entry [next_uns_byte];
IF .current_stmt_mode THEN current_stmt = 1;
dpc_entry = dpc_entry [add_two_bytes];
```

```
340 0608
341 0609
342 0610
343 0611
344 0612
345 0613
346 0614
347 0615
348 0616
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350 0618
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353 0621
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372 0640
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396 0664
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397 0665
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400 0668
401 0669
402 0670
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404 0672
405 0673
406 0674
407 0675
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409 0677
410 0678
411 0679
412 0680
413 0681
414 0682
415 0683
416 0684
417 0685
418 0686
419 0687
420 0688
421 0689
422 0690
423 0691
424 0692
425 0693
426 0694
427 0695
428 0696
429 0697
430 0698
431 0699
432 0700
433 0701
434 0702
435 0703
436 0704
437 0705
438 0706
439 0707
440 0708
441 0709
442 0710
443 0711
444 0712
445 0713
446 0714
447 0715
448 0716
449 0717
450 0718
451 0719
452 0720
453 0721
```

```
END;

! Increase the current line number by the value
! contained in the next unsigned word.
[dst$incr_linum_w]:
BEGIN
  IF .current_stmt_mode THEN current_stmt = 1;
  current_line = .current_line + .dpc_entry [next_uns_word];
  dpc_entry = dpc_entry [add_three_bytes];
END;

! Increase the current line number by the value
! contained in the next unsigned longword.
[dst$incr_linum_l]:
BEGIN
  IF .current_stmt_mode THEN current_stmt = 1;
  current_line = .current_line + .dpc_entry [next_uns_long];
  dpc_entry = dpc_entry [add_five_bytes];
END;

! Change the line increment from its present value to
! the value contained in the next unsigned byte.
[dst$set_linum_incr]:
BEGIN
  IF .current_stmt_mode THEN current_stmt = 1;
  current_incr = .dpc_entry [next_uns_byte];
  dpc_entry = dpc_entry [add_two_bytes];
END;

! Change the line increment from its present value to
! the value contained in the next word.
[dst$set_linum_incr_w]:
BEGIN
  IF .current_stmt_mode THEN current_stmt = 1;
  current_incr = .dpc_entry [next_uns_word];
  dpc_entry = dpc_entry [add_three_bytes];
END;

! Revert to a line increment of value 1.
[dst$reset_linum_incr]:
BEGIN
  IF .current_stmt_mode THEN current_stmt = 1;
  current_incr = 1;
  dpc_entry = dpc_entry [add_one_byte];
END;

[dst$beg_stmt_mode]:
```

```
454 0722 4
455 0723 4
456 0724 4
457 0725 5
458 0726 5
459 0727 5
460 0728 4
461 0729 4
462 0730 4
463 0731 4
464 0732 4
465 0733 3
466 0734 3
467 0735 3
468 0736 4
469 0737 4
470 0738 4
471 0739 4
472 0740 3
473 0741 3
474 0742 3
475 0743 4
476 0744 4
477 0745 4
478 0746 5
479 0747 5
480 0748 5
481 0749 4
482 0750 4
483 0751 4
484 0752 4
485 0753 3
486 0754 3
487 0755 3
488 0756 4
489 0757 4
490 0758 4
491 0759 5
492 0760 5
493 0761 5
494 0762 4
495 0763 4
496 0764 4
497 0765 4
498 0766 3
499 0767 3
500 0768 3
501 0769 4
502 0770 4
503 0771 4
504 0772 5
505 0773 5
506 0774 5
507 0775 4
508 0776 4
509 0777 4
510 0778 4
```

```
BEGIN
IF .current_mark NEQ line_open
THEN
    BEGIN
    TBK$FAKE MSG(TBK$_INVDSTREC,0);
    RETURN FALSE;
    END;

current_stmt = 1;
current_stmt_mode = TRUE;
dpc_entry = dpc_entry[add_one_byte];
END;

[dst$end_stmt_mode]:
BEGIN
current_stmt = 1;
current_stmt_mode = FALSE;
dpc_entry = dpc_entry[add_one_byte];
END;

[dst$set_linum_b]:
BEGIN
IF .current_mark NEQ line_closed
THEN
    BEGIN
    TBK$FAKE MSG(TBK$_INVDSTREC,0);
    RETURN FALSE;
    END;

current_line = .dpc_entry[next_uns_byte];
dpc_entry = dpc_entry[add_two_bytes];
END;

[dst$set_linum]:
BEGIN
IF .current_mark NEQ line_closed
THEN
    BEGIN
    TBK$FAKE MSG(TBK$_INVDSTREC,0);
    RETURN FALSE;
    END;

current_line = .dpc_entry[next_uns_word];
dpc_entry = dpc_entry[add_three_bytes];
END;

[dst$set_linum_l]:
BEGIN
IF .current_mark NEQ line_closed
THEN
    BEGIN
    TBK$FAKE MSG(TBK$_INVDSTREC,0);
    RETURN FALSE;
    END;

current_line = .dpc_entry[next_uns_long];
dpc_entry = dpc_entry[add_five_bytes];
```

511 0779 3
512 0780 3
513 0781 3
514 0782 4
515 0783 4
516 0784 4
517 0785 3
518 0786 3
519 0787 3
520 0788 4
521 0789 4
522 0790 4
523 0791 5
524 0792 5
525 0793 5
526 0794 4
527 0795 4
528 0796 4
529 0797 4
530 0798 4
531 0799 3
532 0800 3
533 0801 3
534 0802 4
535 0803 4
536 0804 4
537 0805 5
538 0806 5
539 0807 5
540 0808 4
541 0809 4
542 0810 4
543 0811 4
544 0812 4
545 0813 3
546 0814 3
547 0815 3
548 0816 4
549 0817 4
550 0818 4
551 0819 5
552 0820 5
553 0821 5
554 0822 4
555 0823 4
556 0824 4
557 0825 4
558 0826 4
559 0827 3
560 0828 3
561 0829 3
562 0830 3
563 0831 3
564 0832 3
565 0833 4
566 0834 4
567 0835 4

```
END;

[dst$set_stmtnum]:
BEGIN
  current_stmt = .dpc_entry[next_uns_word];
  dpc_entry = dpc_entry[add_three_bytes];
END;

[dst$set_pc]:
BEGIN
  IF .current_mark NEQ line_closed
  THEN
    BEGIN
      TBK$FAKE_MSG(TBK$_INVDSTREC,0);
      RETURN FALSE;
    END;

    current_pc = .start_pc +
      .dpc_entry[next_uns_byte];
    dpc_entry = dpc_entry[add_two_bytes];
  END;

[dst$set_pc_w]:
BEGIN
  IF .current_mark NEQ line_closed
  THEN
    BEGIN
      TBK$FAKE_MSG(TBK$_INVDSTREC,0);
      RETURN FALSE;
    END;

    current_pc = .start_pc +
      .dpc_entry[next_uns_word];
    dpc_entry = dpc_entry[add_three_bytes];
  END;

[dst$set_pc_l]:
BEGIN
  IF .current_mark NEQ line_closed
  THEN
    BEGIN
      TBK$FAKE_MSG(TBK$_INVDSTREC,0);
      RETURN FALSE;
    END;

    current_pc = .start_pc +
      .dpc_entry[next_uns_long];
    dpc_entry = dpc_entry[add_five_bytes];
  END;

! Set the current PC value to an absolute address.
[dst$set_abs_pc]:
BEGIN
  IF .CURRENT_MARK NEQ LINE_CLOSED
  THEN
```

```
BEGIN
TBK$FAKE MSG(TBK$_INVDSTREC,0);
RETURN FALSE;
END;
```

```
CURRENT_PC = .DPC_ENTRY[NEXT_UN$ LONG];
DPC_ENTRY = DPC_ENTRY[ADD_FIVE_BYTES];
END;
```

```
[dst$term]:
BEGIN
current_pc = .current_pc +
               .dpc_entry[next_un$ byte];
current_mark = line_closed;
dpc_entry = dpc_entry[add_two_bytes];
RETURN TRUE;
END;
```

```
[dst$term_w]:
BEGIN
current_pc = .current_pc +
               .dpc_entry[next_un$ word];
current_mark = line_closed;
dpc_entry = dpc_entry[add_three_bytes];
RETURN TRUE;
END;
```

```
[dst$term_l]:
BEGIN
current_pc = .current_pc +
               .dpc_entry[next_un$ long];
current_mark = line_closed;
dpc_entry = dpc_entry[add_five_bytes];
RETURN TRUE;
END;
```

```
! This is a standard delta_PC command if the value is
! less than or equal to zero. Otherwise it is an error.
! If okay, set next_pc value, update the dpc_entry,
! and return with success.
```

```
[OUTRANGE]:
BEGIN
IF .dpc_entry[current_byte] LSS
    dst$delta_pc_low
OR .dpc_entry[current_byte] GTR
    dst$delta_pc_high
THEN
    BEGIN
    TBK$FAKE MSG(TBK$_INVDSTREC,0);
    RETURN FALSE;
    END;

IF .current_stmt_mode
THEN
    current_stmt = .current_stmt + 1
```

```
568 0836 5
569 0837 5
570 0838 5
571 0839 4
572 0840 4
573 0841 4
574 0842 4
575 0843 3
576 0844 3
577 0845 3
578 0846 4
579 0847 4
580 0848 4
581 0849 4
582 0850 4
583 0851 4
584 0852 3
585 0853 3
586 0854 3
587 0855 4
588 0856 4
589 0857 4
590 0858 4
591 0859 4
592 0860 4
593 0861 3
594 0862 3
595 0863 3
596 0864 4
597 0865 4
598 0866 4
599 0867 4
600 0868 4
601 0869 4
602 0870 3
603 0871 3
604 0872 3
605 0873 3
606 0874 3
607 0875 3
608 0876 3
609 0877 3
610 0878 3
611 0879 4
612 0880 4
613 0881 4
614 0882 4
615 0883 4
616 0884 4
617 0885 5
618 0886 5
619 0887 5
620 0888 4
621 0889 4
622 0890 4
623 0891 4
624 0892 4
```

625 0893 4
626 0894 4
627 0895 4
628 0896 4
629 0897 4
630 0898 4
631 0899 4
632 0900 4
633 0901 4
634 0902 4
635 0903 3
636 0904 3
637 0905 2
638 0906 2
639 0907 2
640 0908 1

```
ELSE
    current_line = .current_line +
                  .current_incr;

    current_pc = .current_pc -
                .dpc_entry [current_byte];
    current_mark = line_open;
    dpc_entry = dpc_entry [add_one_byte];
    RETURN TRUE;
END;
```

```
END;
TES;
RETURN 0;
END;
```

000C 00000 PROC_PC_CMD:				
53	0000'	CF 9E 00002	Save R2,R3	0551
50	FC B3 9A 00007	1\$: MOVAB DPC_ENTRY, R3		
50	FC A3 C0 0000B	MOVZBL @DST_ENTRY, R0		0594
50	63 D1 0000F	ADDL2 DST_ENTRY, R0		
	13 15 00012	CMPD DPC_ENTRY, R0		0593
	FC A3 9F 00014	BLEQ 3\$		
0000V	CF 01 FB 00017	PUSHAB DST_ENTRY		0597
	03 50 EB 0001C	CALLS #1, GET_NEXT_DPC		
	01E0 31 0001F	BLBS R0, 2\$		
63	FC A3 02 C1 00022	2\$: ADDL3 #2, DST_ENTRY, DPC_ENTRY		0602
	52 63 D0 00027	3\$: MOVL DPC_ENTRY, R2		0611
14	01 62 8F 0002A	CASEB (R2), #1, #20		
00BC	009B	0089 004F 0002E	4\$: .WORD 8\$-4\$,-	
00FB	00E8	00DA 00CB 00036	16\$-4\$,-	
016D	0155	013D 0116 0003E	17\$-4\$,-	
017F	01B5	01A4 0136 00046	21\$-4\$,-	
0126	0106	00AD 006F 0004E	23\$-4\$,-	
		01C4 00056	25\$-4\$,-	
			27\$-4\$,-	
			29\$-4\$,-	
			33\$-4\$,-	
			39\$-4\$,-	
			41\$-4\$,-	
			44\$-4\$,-	
			37\$-4\$,-	
			51\$-4\$,-	
			52\$-4\$,-	
			46\$-4\$,-	
			13\$-4\$,-	
			19\$-4\$,-	
			31\$-4\$,-	
			35\$-4\$,-	
			53\$-4\$,-	
			(R2)	
		62 95 00058	TSTB	0882

			03	15	0005A	BLEQ	5\$		
		01	54	31	0005C	BRW	47\$		
	05	18	A3	E9	0005F	5\$: BLBC	CURRENT_STMT_MODE, 6\$		0890
		0C	A3	D6	00063	INCL	CURRENT_STMT		0892
			05	11	00066	BRB	7\$		
08	A3	10	A3	C0	00068	6\$: ADDL2	CURRENT_INCR, CURRENT_LINE		0895
	50	00	B3	98	0006D	7\$: CVTBL	DPC_ENTRY, R0		0898
14	A3		50	C2	00071	SUBL2	R0, CURRENT_PC		
30	A3		01	D0	00075	MOVL	#1, CURRENT_MARK		0899
			63	D6	00079	INCL	DPC_ENTRY		0900
			1D	11	0007B	BRB	12\$		0901
	05	18	A3	E9	0007D	8\$: BLBC	CURRENT_STMT_MODE, 9\$		0621
		0C	A3	D6	00081	INCL	CURRENT_STMT		0623
			05	11	00084	BRB	10\$		
08	A3	10	A3	C0	00086	9\$: ADDL2	CURRENT_INCR, CURRENT_LINE		0626
30	A3		01	D0	0008B	10\$: MOVL	#1, CURRENT_MARK		0628
	50	01	A2	3C	0008F	MOVZWL	1(R2), R0		0630
14	A3		50	C0	00093	ADDL2	R0, CURRENT_PC		
	63		03	C0	00097	11\$: ADDL2	#3, DPC_ENTRY		0631
		01	61	31	0009A	12\$: BRW	55\$		0632
	05	18	A3	E9	0009D	13\$: BLBC	CURRENT_STMT_MODE, 14\$		0642
		0C	A3	D6	000A1	INCL	CURRENT_STMT		0644
			05	11	000A4	BRB	15\$		
08	A3	10	A3	C0	000A6	14\$: ADDL2	CURRENT_INCR, CURRENT_LINE		0647
30	A3		01	D0	000AB	15\$: MOVL	#1, CURRENT_MARK		0649
14	A3	01	A2	C0	000AF	ADDL2	1(R2), CURRENT_PC		0651
	50	01	44	31	000B4	BRW	54\$		0652
			A2	9A	000B7	16\$: MOVZBL	1(R2), R0		0662
08	A3		50	C0	000BB	ADDL2	R0, CURRENT_LINE		
	7F	18	A3	E9	000BF	BLBC	CURRENT_STMT_MODE, 32\$		0663
0C	A3		01	D0	000C3	MOVL	#1, CURRENT_STMT		
			79	11	000C7	BRB	32\$		0664
	04	18	A3	E9	000C9	17\$: BLBC	CURRENT_STMT_MODE, 18\$		0673
0C	A3		01	D0	000CD	MOVL	#1, CURRENT_STMT		
	50	01	A2	3C	000D1	18\$: MOVZWL	1(R2), R0		0674
08	A3		50	C0	000D5	ADDL2	R0, CURRENT_LINE		
			77	11	000D9	BRB	34\$		0675
	04	18	A3	E9	000DB	19\$: BLBC	CURRENT_STMT_MODE, 20\$		0684
0C	A3		01	D0	000DF	MOVL	#1, CURRENT_STMT		
08	A3	01	A2	C0	000E3	20\$: ADDL2	1(R2), CURRENT_LINE		0685
			78	11	000E8	BRB	36\$		0686
	04	18	A3	E9	000EA	21\$: BLBC	CURRENT_STMT_MODE, 22\$		0695
0C	A3		01	D0	000EE	MOVL	#1, CURRENT_STMT		
10	A3	01	A2	9A	000F2	22\$: MOVZBL	1(R2), CURRENT_INCR		0696
			49	11	000F7	BRB	32\$		0697
	04	18	A3	E9	000F9	23\$: BLBC	CURRENT_STMT_MODE, 24\$		0706
0C	A3		01	D0	000FD	MOVL	#1, CURRENT_STMT		
10	A3	01	A2	3C	00101	24\$: MOVZWL	1(R2), CURRENT_INCR		0707
			61	11	00106	BRB	38\$		0708
	04	18	A3	E9	00108	25\$: BLBC	CURRENT_STMT_MODE, 26\$		0716
0C	A3		01	D0	0010C	MOVL	#1, CURRENT_STMT		
10	A3		01	D0	00110	26\$: MOVL	#1, CURRENT_INCR		0717
			1A	11	00114	BRB	30\$		0718
	01	30	A3	D1	00116	27\$: CMPL	CURRENT_MARK, #1		0723
			03	13	0011A	BEQL	28\$		
		00	80	31	0011C	BRW	45\$		
0C	A3		01	D0	0011F	28\$: MOVL	#1, CURRENT_STMT		0730

18	A3		01	D0	00123	MOVL	#1, CURRENT_STMT_MODE	0731
			07	11	00127	BRB	30\$	0732
0C	A3		01	D0	00129	MOVL	#1, CURRENT_STMT	0737
		18	A3	D4	0012D	CLRL	CURRENT_STMT_MODE	0738
			63	D6	00130	INCL	DPC_ENTRY	0739
			65	11	00132	BRB	43\$	0611
	02	30	A3	D1	00134	CMPL	CURRENT_MARK, #2	0744
			79	12	00138	BNEQ	47\$	
	50		63	D0	0013A	MOVL	DPC_ENTRY, R0	0751
08	A3	01	A0	9A	0013D	MOVZBL	1(R0), CURRENT_LINE	
			3A	11	00142	BRB	40\$	0752
	02	30	A3	D1	00144	CMPL	CURRENT_MARK, #2	0757
			69	12	00148	BNEQ	47\$	
	50		63	D0	0014A	MOVL	DPC_ENTRY, R0	0764
08	A3	01	A0	3C	0014D	MOVZWL	1(R0), CURRENT_LINE	
			42	11	00152	BRB	42\$	0765
	02	30	A3	D1	00154	CMPL	CURRENT_MARK, #2	0770
			59	12	00158	BNEQ	47\$	
	50		63	D0	0015A	MOVL	DPC_ENTRY, R0	0777
08	A3	01	A0	D0	0015D	MOVL	1(R0), CURRENT_LINE	
			68	11	00162	BRB	49\$	0778
0C	A3	01	A2	3C	00164	MOVZWL	1(R2), CURRENT_STMT	0783
			2B	11	00169	BRB	42\$	0784
	02	30	A3	D1	0016B	CMPL	CURRENT_MARK, #2	0789
			42	12	0016F	BNEQ	47\$	
	50		63	D0	00171	MOVL	DPC_ENTRY, R0	0797
	51	01	A0	9A	00174	MOVZBL	1(R0), R1	
14	A3	04	B341	9E	00178	MOVAB	@START_PC[R1], CURRENT_PC	
	63		02	C0	0017E	ADDL2	#2, DPC_ENTRY	0798
			4C	11	00181	BRB	50\$	0611
	02	30	A3	D1	00183	CMPL	CURRENT_MARK, #2	0803
			2A	12	00187	BNEQ	47\$	
	50		63	D0	00189	MOVL	DPC_ENTRY, R0	0811
	51	01	A0	3C	0018C	MOVZWL	1(R0), R1	
14	A3	04	B341	9E	00190	MOVAB	@START_PC[R1], CURRENT_PC	
	63		03	C0	00196	ADDL2	#3, DPC_ENTRY	0812
			34	11	00199	BRB	50\$	0611
	02	30	A3	D1	0019B	CMPL	CURRENT_MARK, #2	0817
			12	12	0019F	BNEQ	47\$	
	50		63	D0	001A1	MOVL	DPC_ENTRY, R0	0825
14	A3	04	A0	C1	001A4	ADDL3	1(R0), START_PC, CURRENT_PC	
			1F	11	001AB	BRB	49\$	0826
	02	30	A3	D1	001AD	CMPL	CURRENT_MARK, #2	0834
			11	13	001B1	BEQL	48\$	
			7E	D4	001B3	CLRL	-(SP)	0837
		00098332	8F	DD	001B5	PUSHL	#623410	
	00		02	FB	001BB	CALLS	#2, TBK\$FAKE_MSG	0838
			3E	11	001C2	BRB	56\$	0841
	50		63	D0	001C4	MOVL	DPC_ENTRY, R0	
14	A3	01	A0	D0	001C7	MOVL	1(R0), CURRENT_PC	
	63		05	C0	001CC	ADDL2	#5, DPC_ENTRY	0842
			FE35	31	001CF	BRW	1\$	0611
	50	01	A2	9A	001D2	MOVZBL	1(R2), R0	0848
			50	C0	001D6	ADDL2	R0, CURRENT_PC	
14	A3		02	D0	001DA	MOVL	#2, CURRENT_MARK	0849
			02	C0	001DE	ADDL2	#2, DPC_ENTRY	0850
30	63		1B	11	001E1	BRB	55\$	0851

TBKDPC
V04-000

E 4
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14	50	01	A2	3C	001E3	52\$:	MOVZWL	1(R2), R0	:	0857
30	A3		50	C0	001E7		ADDL2	R0, CURRENT_PC	:	
	A3		02	D0	001EB		MOVL	#2, CURRENT_MARK	:	0858
14	A3	01	FEA5	31	001EF		BRW	11\$:	0859
30	A3		A2	C0	001F2	53\$:	ADDL2	1(R2), CURRENT_PC	:	0866
	A3		02	D0	001F7		MOVL	#2, CURRENT_MARK	:	0867
	63		05	C0	001FB	54\$:	ADDL2	#5, DPC_ENTRY	:	0868
	50		01	D0	001FE	55\$:	MOVL	#1, R0	:	0869
				04	00201		RET		:	
			50	D4	00202	56\$:	CLRL	R0	:	0908
				04	00204		RET		:	

; Routine Size: 517 bytes, Routine Base: TBK\$CODE + 00DC

```

642 0909 1 ROUTINE get_next_dpc (dst_rec_ptr) = ! gets next PC correlation record
643 0910 1
644 0911 1 ++
645 0912 1 Functional description:
646 0913 1 Reads DST records until either no more exist, a module end
647 0914 1 record is seen, or another PC correlation record is seen. In
648 0915 1 the first two cases, a FALSE return is taken. In the third
649 0916 1 case, the address of the new record and a success return is
650 0917 1 taken.
651 0918 1
652 0919 1 Inputs:
653 0920 1 dst_rec_ptr - pointer for new DST PC correlation record
654 0921 1
655 0922 1 Implicit inputs:
656 0923 1 the routine tbk$get_nxt_dst is set up to return
657 0924 1 each DST record sequentially, and the last record
658 0925 1 that it returned was a PC correlation record.
659 0926 1
660 0927 1 Implicit outputs:
661 0928 1 tbk$get_nxt_dst is now set up to return the next record after
662 0929 1 the returned record or the next record after the record that
663 0930 1 caused this routine to fail.
664 0931 1
665 0932 1 Routine value:
666 0933 1 true or false
667 0934 1
668 0935 1 Side effects:
669 0936 1 none
670 0937 1
671 0938 1 --
672 0939 1
673 0940 2 BEGIN
674 0941 2
675 0942 2 BIND
676 0943 2 dst_entry = .dst_rec_ptr : REF dst$record;
677 0944 2
678 0945 2 LOCAL
679 0946 2 dst_rec_id;
680 0947 2
681 0948 2 REPEAT
682 0949 2 BEGIN
683 0950 2 dst_entry = tbk$get_nxt_dst (dst_rec_id);
684 0951 2 IF .dst_entry EQL 0
685 0952 2 THEN RETURN FALSE;
686 0953 2 IF .dst_entry [dst$b_type] EQL dst$k_modend
687 0954 2 THEN RETURN FALSE;
688 0955 2 IF .dst_entry [dst$b_type] EQL dst$k_line_num
689 0956 2 OR .dst_entry [dst$b_type] EQL dst$k_line_num_rel_r11
690 0957 2 THEN RETURN TRUE;
691 0958 2 END;
692 0959 2 RETURN FALSE;
693 0960 1 END;
```

TBKDPC
V04-000

G 4
16-Sep-1984 02:13:52
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(5)

		0000 00000 GET_NEXT_DPC:				
	5E	04	C2 00002	WORD	Save nothing	: 0909
		5E	DD 00005	SUBL2	#4, SP	: 0950
00000000G	00	01	FB 00007	PUSHL	SP	: 0951
04	BC	50	D0 0000E	CALLS	#1, TBK\$GET_NXT_DST	: 0953
	50	04	BC D0 00012	MOVL	R0, @DST_REC_PTR	: 0955
		19	13 00016	MOVL	@DST_REC_PTR, R0	: 0956
BD	8F	01	A0 91 00018	BEQL	3\$: 0957
		12	13 0001D	CMPB	1(R0), #189	: 0960
B9	8F	01	A0 91 0001F	BEQL	3\$	
		07	13 00024	CMPB	1(R0), #185	
B6	8F	01	A0 91 00026	BEQL	2\$	
		D8	12 0002B	CMPB	1(R0), #182	
	50	01	D0 0002D	BNEQ	1\$	
			04 00030	MOVL	#1, R0	
		50	D4 00031	RET		
			04 00033	CLRL	R0	
				RET		

; Routine Size: 52 bytes, Routine Base: TBK\$CODE + 02E1

TBKDPC
V04-000

H 4
16-Sep-1984 02:13:52
14-Sep-1984 13:20:17

VAX-11 Bliss-32 V4.0-742
DISK\$VMSMASTER:[TRACE.SRC]TBKDPC.B32;1 Page 21 (6)

: 695 0961 1 END
: 696 0962 0 ELUDOM

PSECT SUMMARY

Name	Bytes	Attributes
TBK\$OWN	60	NOVEC, WRT, RD, NOEXE, NOSHR, LCL, REL, CON, PIC, ALIGN(2)
TBK\$CODE	789	NOVEC, NOWRT, RD, EXE, SHR, LCL, REL, CON, PIC, ALIGN(0)

Library Statistics

File	----- Total	Symbols Loaded	----- Percent	Pages Mapped	Processing Time
\$255\$DUA28:[SYSLIB]LIB.L32;1	18619	3	0	1000	00:01.7
\$255\$DUA28:[TRACE.OBJ]TBKLIB.L32;1	157	4	2	14	00:00.2
\$255\$DUA28:[TRACE.OBJ]STRUCDEF.L32;1	32	0	0	7	00:00.1
\$255\$DUA28:[TRACE.OBJ]TBKDST.L32;1	414	131	31	30	00:00.3

COMMAND QUALIFIERS

: BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/LIS=LIS\$:TBKDPC/OBJ=OBJ\$:TBKDPC MSRC\$:TBKDPC/UPDATE=(ENH\$:TBKDPC)

: Size: 789 code + 60 data bytes
: Run Time: 00:22.0
: Elapsed Time: 01:14.4
: Lines/CPU Min: 2618
: Lexemes/CPU-Min: 20537
: Memory Used: 232 pages
: Compilation Complete

0401 AH-BT13A-SE
VAX/VMS V4.0

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